

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--|------------------|---------|------------------|
| S1 | 2 | "5822553".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/19 07:45 |
| S2 | 6 | ("6131121" "5872982" "5822553").pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/17 11:08 |
| S3 | 13 | 08/719554 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/17 13:55 |
| S4 | 1 | 10/264819 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/17 13:55 |
| S5 | 1 | 10/634393 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/19 07:56 |
| S6 | 18 | ("08/883980" "09/730011" "09/114664") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/19 08:47 |
| S7 | 383 | ((LSP or LPC or (formant adj frequenc\$3) or (vocal adj tract adj resonant) or VTR) with (distance or space or gap or seperation) with (measur\$3 or calculat\$3 or determin\$3 or comput\$4 or assess\$3 or evaluat\$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/19 08:59 |

EAST Search History

| | | | | | | |
|-----|----|--|--|----|----|------------------|
| S8 | 1 | S7 and ((LSP or LPC or (formant adj frequenc\$3) or (vocal adj tract adj resonant) or VTR) with (close or closeness) with (mov\$3 or adjust\$3 or shift\$3 or chang\$3 or correct\$3 or relocat\$3) with (distance or space or gap or seperation)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/19 09:00 |
| S9 | 1 | S7 and ((LSP or LPC or (formant adj frequenc\$3) or (vocal adj tract adj resonant) or VTR) with (close or closeness) with (mov\$3 or adjust\$3 or shift\$3 or chang\$3 or correct\$3 or relocat\$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/19 09:00 |
| S10 | 20 | S7 and ((LSP or LPC or (formant adj frequenc\$3) or (vocal adj tract adj resonant) or VTR) with (close or closeness)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/19 09:00 |
| S11 | 19 | S10 not S9 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/19 09:01 |

File 9:Business & Industry(R) Jul/1994-2007/Sep 11
 (c) 2007 The Gale Group
 File 15:ABI/Inform(R) 1971-2007/Sep 17
 (c) 2007 ProQuest Info&Learning
 File 16:Gale Group PROMT(R) 1990-2007/Sep 17
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 File 20:Dialog Global Reporter 1997-2007/Sep 19
 (c) 2007 Dialog
 File 47:Gale Group Magazine DB(TM) 1959-2007/Sep 05
 (c) 2007 The Gale group
 File 75:TGG Management Contents(R) 86-2007/Sep W1
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 File 80:TGG Aerospace/Def.Mkts(R) 1982-2007/Sep 11
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 File 88:Gale Group Business A.R.T.S. 1976-2007/Sep 11
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 File 98:General Sci Abs 1984-2007/Sep
 (c) 2007 The HW Wilson Co.
 File 112:UBM Industry News 1998-2004/Jan 27
 (c) 2004 United Business Media
 File 141:Readers Guide 1983-2007/Jul
 (c) 2007 The HW Wilson Co
 File 148:Gale Group Trade & Industry DB 1976-2007/Sep 12
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 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
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 File 621:Gale Group New Prod.Annou.(R) 1985-2007/Sep 12
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 (c) 2007 San Jose Mercury News
 File 635:Business Dateline(R) 1985-2007/Sep 19
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 File 636:Gale Group Newsletter DB(TM) 1987-2007/Sep 17
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 (c) 2007 Dialog

File 674:Computer News Fulltext 1989-2006/Sep W1

(c) 2006 IDG Communications

File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire

File 813:PR Newswire 1987-1999/Apr 30

(c) 1999 PR Newswire Association Inc

| Set | Items | Description |
|-----|---------|--|
| S1 | 28484 | FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR |
| S2 | 2256446 | DISTANCE? ? OR SPACING? ? |
| S3 | 149357 | S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL) |
| S4 | 495266 | THRESHOLD? ? |
| S5 | 221734 | (S2 OR S3)(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS- ??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?) |
| S6 | 1515803 | SPEECH? ? |
| S7 | 271 | AU=(SAITO, M? OR SAITO M?) |
| S8 | 0 | S7 AND S1 |
| S9 | 30 | S1(S)S3 |
| S10 | 9 | S9(S)S5 |
| S11 | 7 | S10 NOT PY=>2003 |
| S12 | 7 | RD (unique items) |
| S13 | 1 | S12 NOT (CHILE?? OR WELLES) |
| S14 | 455 | S1(S)S6 |
| S15 | 0 | S14(S)S5 |

13/3,K/1 (Item 1 from file: 88)

DIALOG(R)File 88:Gale Group Business A.R.T.S.

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04026100 SUPPLIER NUMBER: 18631965

A paired comparison method for interval scaling.

Turner, Aric D.

Human Factors, v38, n2, p362(13)

June, 1996

ISSN: 0018-7208 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 6124 LINE COUNT: 00488

... a result of the extended distances between the ratio scale values there. In addition, the **reduced distances** between the scale values at the **lower** end of the rank order increase Type II errors when comparing scale values at that...

...linear regression, the result would be very close to the scale values produced by the **LPC** method (ILLUSTRATION FOR FIGURE 12 OMITTED). Because the **LPC** method can be manipulated by addition, subtraction, multiplication, and division, the **LPC** analytic method can produce interval scale values for all exponential and interval data.

It was...

?

File 2:INSPEC 1898-2007/Sep W2
(c) 2007 Institution of Electrical Engineers
File 6:NTIS 1964-2007/Sep W3
(c) 2007 NTIS, Intl Cpyrght All Rights Res
File 8:Ei Compendex(R) 1884-2007/Sep W2
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File 34:SciSearch(R) Cited Ref Sci 1990-2007/Sep W4
(c) 2007 The Thomson Corp
File 35:Dissertation Abs Online 1861-2007/Jul
(c) 2007 ProQuest Info&Learning
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File 95:TEME-Technology & Management 1989-2007/Sep W3
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(c) 2007 Info.Sources Inc
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 2006 The Thomson Corp
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
(c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2007/Sep 16
(c) 2007 ProQuest Info&Learning

| Set | Items | Description |
|-----|---------|--|
| S1 | 21174 | FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR |
| S2 | 1336281 | DISTANCE? ? OR SPACING? ? |
| S3 | 140031 | S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL) |
| S4 | 681372 | THRESHOLD? ? |
| S5 | 12842 | S3(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS- ??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?) |
| S6 | 357902 | SPEECH? ? |
| S7 | 13784 | AU=(SAITO, M? OR SAITO M?) |
| S8 | 7 | S7 AND S1 |
| S9 | 0 | S8 AND (S3 OR S5) |
| S10 | 0 | S8 AND S2 |
| S11 | 6 | S1 AND S5 |
| S12 | 4 | S11 NOT PY=>2003 |
| S13 | 3 | RD (unique items) |
| S14 | 75 | S1 AND S3 |

S15 3 S14 AND S4
 S16 3 S15 NOT S13
 S17 1 S16 NOT PY=>2003
 S18 51 S14 AND S6
 S19 7 S18 AND (AJUST? OR REDUC? OR CHANG?)
 S20 5 S19 NOT (S17 OR S13)
 S21 3 S20 NOT PY=>2003
 S22 3 RD (unique items)

13/9,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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05973297 INSPEC Abstract Number: B9507-6130-080, C9507-1250C-053

Title: Closed-phase glottal inverse filtering by means of a compound auto-regressive model

Author(s): Schoentgen, J.; Azami, Z.

Author Affiliation: Inst. of Phonetics, Univ. Libre de Bruxelles, Belgium
p.209-12

Publisher: IDIAP, Martigny, Switzerland

Publication Date: 1994 Country of Publication: Switzerland xii+238
pp.

Conference Title: Proceedings of Workshop on Automatic Speaker Recognition, Identification and Verification

Conference Date: 5-7 April 1994 Conference Location: Martigny, Switzerland

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T); Experimental (X)

Abstract: The article concerns techniques for obtaining, representing and comparing voice source signals. Closed-phase **formant frequencies** and bandwidths were estimated by fitting two linear auto-regressive models to a glottal cycle (the first to the open, the second to the closed phase). The moment of switching from one sub-model to the next was automatically determined by minimizing the overall modelling error. The voice source signal was obtained by inverse filtering speech by means of the closed-phase formants. Its spectrum was represented by a nonlinear zero-memory Volterra model. Two source signals were compared by means of their **minimal spectral distance** which was obtained by **adjusting** the nonlinear gain of the Volterra model. (6 Refs)

Subfile: B C

Descriptors: acoustic analysis; autoregressive processes; filtering theory; frequency estimation; signal representation; speaker recognition; speech processing

Identifiers: closed-phase glottal inverse filtering; compound auto-regressive model; voice source signals; closed-phase **formant frequencies**; closed-phase formant bandwidths; linear auto-regressive models; sub-model; overall modelling error; inverse filtering; nonlinear zero-memory Volterra model; minimal spectral distance; nonlinear gain; speaker recognition

Class Codes: B6130 (Speech analysis and processing techniques); C1250C (Speech recognition); C5260S (Speech processing techniques)

Copyright 1995, IEE

Abstract: The article concerns techniques for obtaining, representing and comparing voice source signals. Closed-phase **formant frequencies** and bandwidths were estimated by fitting two linear auto-regressive models to a

File 348:EUROPEAN PATENTS 1978-2007/ 200737

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File 349:PCT FULLTEXT 1979-2007/UB=20070913UT=20070906

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| Set | Items | Description |
|-----|--------|---|
| S1 | 12549 | FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR |
| S2 | 710935 | DISTANCE? ? OR SPACING? ? |
| S3 | 156738 | S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL) |
| S4 | 191098 | THRESHOLD? ? |
| S5 | 172129 | (S2 OR S3)(7N)(ADJUST? OR REDUC? OR MINIMIZ??? OR MINIMIS- ??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?) |
| S6 | 41666 | SPEECH? ? |
| S7 | 1134 | AU=(SAITO, M? OR SAITO M?) |
| S8 | 6 | S7 AND S1 |
| S9 | 0 | S8(S)(S3 OR S5) |
| S10 | 167 | S1(S)S3 |
| S11 | 29 | S10(S)S5 |
| S12 | 15 | S11(S)S6 |
| S13 | 13 | S12 NOT AD=20020929:20070919/PR |
| S14 | 75 | S10(S)S6 |
| S15 | 3 | S14(S)S4 |
| S16 | 3 | S15 NOT S13 |
| S17 | 2 | S16 NOT AD=20020929:20070919/PR |
| S18 | 18 | S14(15N)(ADJUST? OR REDUC? OR MINIMIZ? OR MINIMIS? OR DECR- EAS? OR SHORT?) |
| S19 | 12 | S18 NOT (S17 OR S13) |
| S20 | 9 | S19 NOT AD=20020929:20070919/PR |
| S21 | 20 | S1(10N)S5 |
| S22 | 17 | S21 NOT (S20 OR S13 OR S17) |
| S23 | 12 | S22 NOT AD=20020929:20070919/PR |
| S24 | 8 | S23 NOT (PRINTER OR CASSETTE OR LASER) |

13/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01267219

**Method and apparatus for dynamic segmentation of a low bit rate digital
voice message**

**Verfahren und Vorrichtung zur dynamischen Sprachsegmentierung einer mit
niedriger Bitrate kodierten Sprachnachricht**

**Procede et dispositif pour la segmentation dynamique d'un message vocal
code a bas debit**

PATENT ASSIGNEE:

MOTOROLA, INC., (205770), 1303 East Algonquin Road, Schaumburg, IL 60196,
(US), (Applicant designated States: all)

INVENTOR:

Satyamurti, Sunil, 6845 Blue Bay Circle, Lake Worth, FL 33467, (US)

Finlon, Kenneth, 15653 Bent Creek Road, Wellington, FL 33414, (US)

Huang, Jian-Cheng, 7074 Catalina Isle, Lake Worth, FL 33467, (US)

File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2007/Mar(Updated 070809)
(c) 2007 JPO & JAPIO
File 350:Derwent WPIX 1963-2007/UD=200757
(c) 2007 The Thomson Corporation

| Set | Items | Description |
|-----|--------|--|
| S1 | 109725 | FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR |
| S2 | 849741 | DISTANCE? ? OR SPACING? ? |
| S3 | 114335 | S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL) |
| S4 | 225271 | THRESHOLD? ? |
| S5 | 150668 | (S2 OR S3)(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS- ??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?) |
| S6 | 86216 | SPEECH? ? |
| S7 | 31007 | AU=(SAITO, M? OR SAITO M?) |
| S8 | 303 | S7 AND S1 |
| S9 | 7 | S8 AND S3 |
| S10 | 7 | S9 NOT AD=20020929:20070919/PR |
| S11 | 306 | S1 AND S3 |
| S12 | 61 | S11 AND S5 |
| S13 | 2 | S12 AND S4 |
| S14 | 2 | S13 NOT S10 |
| S15 | 2 | S14 NOT AD=20020929:20070919/PR |
| S16 | 9 | S12 AND S6 |
| S17 | 8 | S16 NOT (S15 OR S10) |
| S18 | 7 | S17 NOT AD=20020929:20070919/PR |
| S19 | 483 | S1 AND S5 |
| S20 | 13 | S19 AND S6 |
| S21 | 5 | S20 NOT (S18 OR S15 OR S10) |
| S22 | 3 | S21 NOT AD=20020929:20070919/PR |

10/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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07973343 **Image available**
VOICE PROCESSING DEVICE AND MOBILE COMMUNICATION TERMINAL DEVICE

PUB. NO.: 2004-086102 [JP 2004086102 A]
PUBLISHED: March 18, 2004 (20040318)
INVENTOR(s): SAITO MUTSUMI
APPLICANT(s): FUJITSU LTD
APPL. NO.: 2002-250362 [JP 2002250362]
FILED: August 29, 2002 (20020829)

INVENTOR(s): SAITO MUTSUMI

ABSTRACT